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State of Utah
DEPARTMENT OF NATURAL RESOURCES
Division of Oil, Gas & Mining

MICHAEL R. STYLER
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Inspection Report
Minerals Regulatory Program
Report Date: September 13, 2006

Supervisor LOQZ

Mine Name: Bromide Basin
Operator Name: Unico

Permit number: M0170031
Inspection Date: August 28, 2006
Time: About 4:30-6:30 PM

Inspector(s): Paul Baker
Other Participants: Buzz Rakow, Hanksville BLM
Mine Status: Inactive

Weather: Clear, cool

Elements of Inspection	Evaluated	Comment	Enforcement
1. Permits, Revisions, Transfer, Bonds	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Public Safety (shafts, adits, trash, signs, highwalls)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Protection of Drainages / Erosion Control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Deleterious Material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Roads (maintenance, surfacing, dust control, safety)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Concurrent Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Backfilling/Grading (trenches, pits, roads, highwalls, shafts, drill holes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Water Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Revegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Air Quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Purpose of Inspection:
This was a routine inspection.

Inspection Summary:

1. Permits, Revisions, Transfer, Bonds

The Division does not hold a reclamation surety for this site, and it needs to be in place by December 8, 2006.

2. Public Safety (shafts, adits, trash, signs, highwalls)

There are two portals which I understand are called the Bromide Mine and the Middle Mine. We parked where the road from Copper Ridge crosses the drainage then hiked up to the mines. At the place where we parked, there is a retaining wall (Photo 1), and there were some facilities below the retaining wall that were damaged or destroyed by heavy snow, slides, and runoff during the winter/spring of 2004-2005 (Photo 2).

The Middle Mine (Photo 4) is about one-fourth mile up from the retaining wall. As can be seen in Photo 4, the portal was open, but several rocks had fallen in front of it. At this site, there is a cabin with bunks, food, etc., and there was also a building that had collapsed (Photo 5).

The Bromide Mine (Photo 7) is about one-fourth mile up the drainage from the Middle Mine. This portal was also open, and some dirt had fallen in front of it. Facilities at this site include a pond

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(Photo 6) and about five sheds (Photo 5). One of these sheds is apparently used as an explosives magazine, but we did not look to see if explosives were present.

3. Protection of Drainages / Erosion Control

We did not drive up the drainage, but access to the mines is normally gained by driving up the streambed or a road adjacent to the stream. Beginning about 100 yard up from the retaining wall, there was water in the stream. A portion of this water comes from the Middle Mine.

5. Roads (maintenance, surfacing, dust control, safety)

A portion of the access road is shown in Photo 3. I could not tell if the operator has recently tried to widen this road or if the side cut is unstable and eroded or was subject to mass failure during the winter of 2004-2005.

Conclusions and Recommendations:

The operator needs to contact the Division about submitting a reclamation surety and a reclamation contract.

The portals need to be secured to restrict entry by the public. This is required by rule R647-3-107.1.11 which says "The operator shall minimize hazards to the public safety and welfare during operations. Methods to minimize hazards shall include but not be limited to the closing or guarding of shafts and tunnels to prevent unauthorized or accidental entry in accordance with MSHA regulations." **I will issue a notice of violation if this problem is not corrected by the next inspection.**

The process of cleaning up damage from the slides will probably take a while, but the operator needs to begin taking care of this problem.

In some places the road runs parallel to the stream channel, and the operator should see whether it would be feasible to have the entire road to the side of the stream. The road has apparently been in the same location for many years.

Inspector's Signature

RLB

Date:

9/15/06

PBB:pb

cc: Operator
Buzz Rakow, Hanksville BLM
Attachment: GPS & Photos

**ATTACHMENT
Photographs**

M0170031, Bromide Basin Mine, Unico

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Photo 1. Log retaining wall.



Photo 2. Some of the damage apparently caused by slides or runoff in 2004-2005.



Photo 3. It appears this cut has suffered some degree of mass failure or that the operator was trying to expand the road.



Photo 4. The Middle Mine portal.



Photo 5. Buildings near the Middle Mine portal.

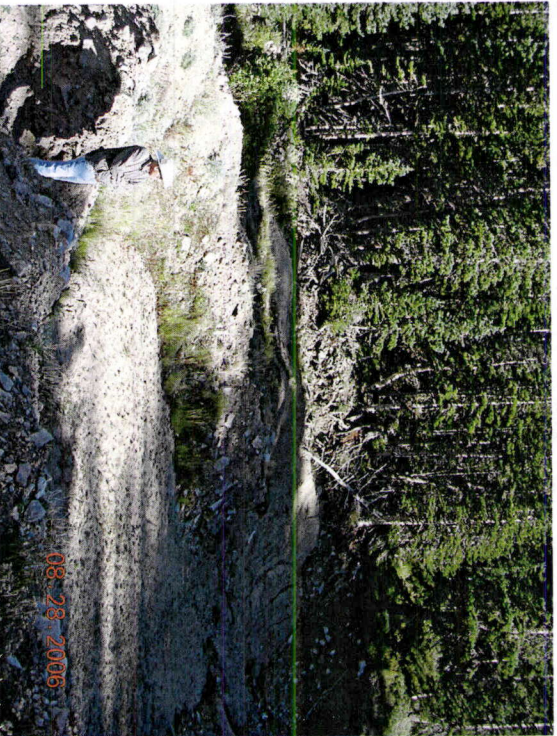


Photo 6. Pond just below the Bromide Mine.

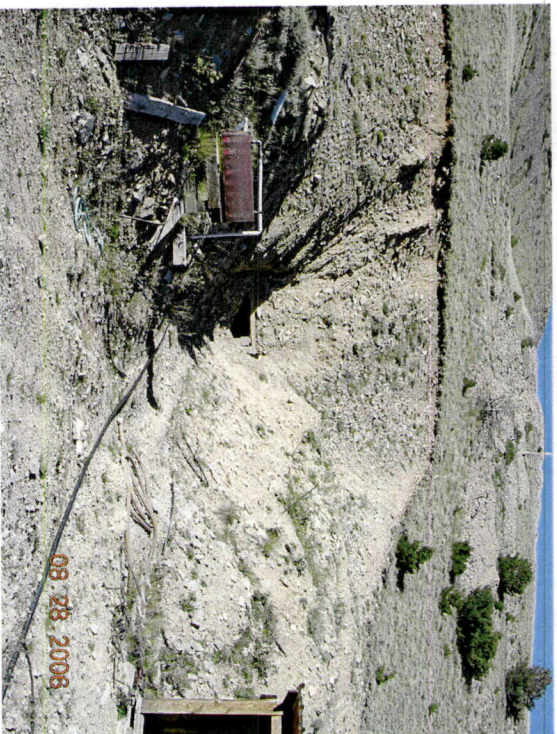


Photo 7. The Bromide Mine and associated highwall.



Photo 8. Two of the buildings near the Bromide Mine.

Mine Number: S0170031
Mine Name: Bromide Basin
Township 31 S Range 10 E Section 34 SLBM

Inspection Date Aug. 28, 2006
Map Produced by DKS

Acres Disturbed	0
Acres Regraded	0
Acres Seeded	0
Road Acres Disturbed	0
Total Acres Disturbed	0
Acres Released	0
Acres Excluded	0
Acres PreExisting	0
Acres Prelaw	0

Legend
All items symbolized in legend may not be appear on map

- County Boundary
- Access
- Mine
- NonMine
- Reclaimed
- Other
- Interstate
- US Route
- State Route
- Primary Route
- Secondary Route
- Main Dirt Road
- Unimproved Road
- Interchange
- Trail
- Township or range line
- Section line
- Section line: location doubtful
- Disturbed
- Regraded
- Seeded
- Released
- Excluded
- PreExisting
- Prelaw
- Bond Area
- SITLA Mineral Leases
- BLMSaleableMinerals
- CommunityPit
- SITLA Mineral Ownership

DOQ imagery date 1993



Dept. of Natural Resources
Division of Oil, Gas, and Mining
Mineral Mines Program

Different data sources and input scales
may cause misalignment of data layers.
This product may not meet DGM
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